

250 Staunton Turnpike, Parkersburg, WV 26104

TMP-2603 EXTRUDED ALUMINUM VERTICAL CLIPPED MULLION

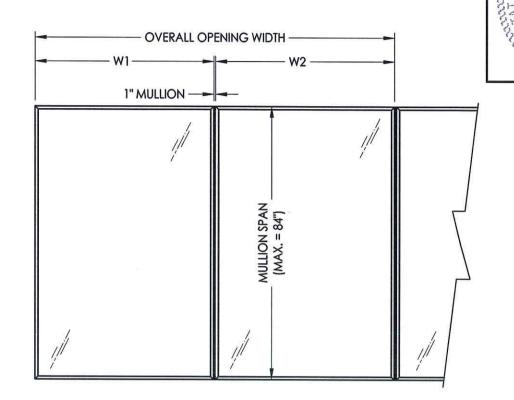


EVALUATED FOR USE IN THE STATE OF TEXAS

The Wincore Structural Mullion described herein complies with the 2006 International Residential Code (IRC), Sections R613.9 and the 2006 International Building Code (IBC), (including Texas Revisions), subject to the following conditions:

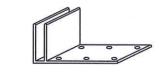
- 1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall covering.
- 2. When used in areas requiring wind-borne debris protection (Seaward and Inland I areas), this product complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC and does not require impact protection. This product meets missile level "D" and includes Wind Zone 3 as defined in ASTM E 1996.
- 3. Separate product approvals for each glazing product used with these mullions must be submitted along with this mullion product approval. The design pressure rating of the assembly shall be the lesser of the load capacity of the mullion as specified using this approval or the design pressure rating of the individual glazing products used.
- 4. Anchoring of each glazing product to the mullion shall be as shown in this drawing or as shown in each individual glazing product approval, whichever is more stringent.
- 5. Any conditions not covered in this evaluation are subject to separate engineering evaluation.
- 6. Mulled assemblies may be either factory assembled or site assembled.

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SHEET #	DESCRIPTION							
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3	Wood/Steel Stud Anchor Clip details & cross sections							
4	Masonry Anchor Clip details & cross sections							
5	Masonry or Wood/Steel Stud Offset Anchor Clip details & cross sections							

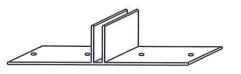


VERTICAL MULLED WINDOW UNITS

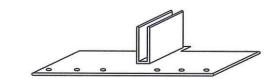
ADJOINING WINDOW UNITS CAN BE EQUAL OR UNEQUAL WIDTHS



Wood/Steel Stud Anchor Clip



Masonry Anchor Clip



Masonry or Wood/Steel Stud Offset Anchor Clip

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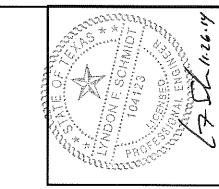
MULLION

CLIPPED

ALUMINUM

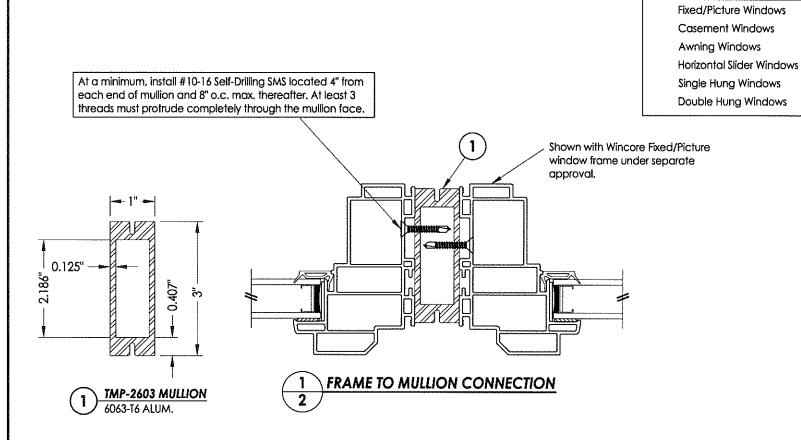
											ASSESSMENT OF THE PROPERTY OF	enemities investiment														
CLIF	PED									AP-2603	EXTRUDE	D ALUM					I LOAD 1	ABLE (PS	F)							
MUL													OVERALI	OPENIN	ig Width											
		49"	53"	57"	61*	65"	69"	73"	77"	81*	85"	89"	93"	97"	101"	105"	109"	113"	1177	121"	125	129"	133"	137	141"	145"
	84"	67.5	62.5	58.5	55.0	52.0	49.5	47.0	45.0	43.0	41.5	40.0	39.0	37.5	36.5	35.5	34.5	34.0	33.5	33.0	32.5	32.0	31.0	31.0	30.5	30.0
	82"	72.5	67.5	63.0	59.0	56.0	53.5	51.0	48.5	46.5	45.0	43.5	42.0	40.5	39.5	38.5	37.5	37.0	36.0	35.5	35.0	34.5	34.0	33.5	33.5	33.0
	80"	75.0	73.0	68.0	64.0	60.5	57.5	55.0	52.5	50.0	48.5	47.0	45.5	44.0	43.0	42.0	41.0	40.0	39.5	38.5	38.0	37.5	37.0	37.0	36.5	36.5
E	78"	75.0	75.0	74.0	69.0	66.0	62.0	60.0	57.0	55.0	53.0	51.0	50.0	48.0	47.0	46.0	45.0	44.0	43.0	42.5	42.5	41.5	41.0	40.5	40.5	40.0
LENGTH	76"	75.0	75.0	75.0	74.5	71.5	67.0	64.0	61.0	59.5	57.0	55.5	53.5	52.5	50.5	50.0	49.0	48.0	47.5	46.5	46.0	45.5	45.0	44.5	44.5	44.0
	74"	75.0	75.0	75.0	75.0	75.0	74.0	70.5	67.5	65.0	63.0	61.0	59.0	57.5	56.0	55.0	54.0	53.0	52.0	51.5	50.5	50.0	50.0	49.5	49.5	49.0
MULLION	72"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.0	71.0	69.0	66.5	65.0	63.0	61.5	60.5	59.0	58.5	57.5	56.5	56.0	55.5	55.5	55.0	55.0	55.0
	70"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.5	71.5	69.5	68.0	66.5	65.5	64.5	63.5	63.0	62.5	62.0	61.5	61.5	61.5	61.5
MAXIMUM	68"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.0	72.5	71.5	70.5	69.5	69.5	69.5	69.0	69.0	69.0	69.0
3	66"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
	64"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
	62"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
	60°	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0

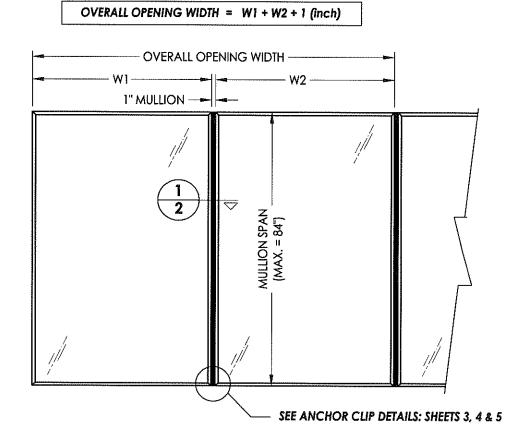
APPROVED WINDOW UNIT TYPES

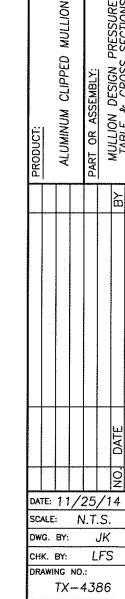


DESIGN PRESSURE TABLE NOTES:

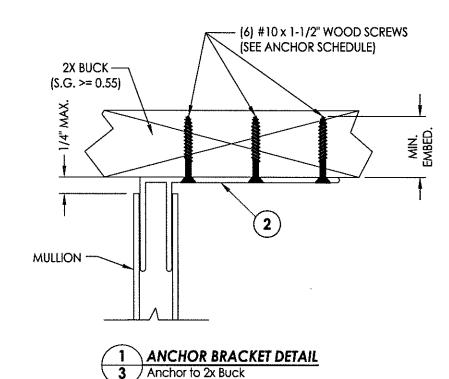
- Determine the Overall Opening Width for the two windows to be mulled together. If multiple units are to be mulled together, use the maximum Overall Opening Width for the two widest adjacent windows.
 Enter the table at the intersection of the Mullion Length and the Overall Opening Width to determine the maximum
- approved Design Pressure.

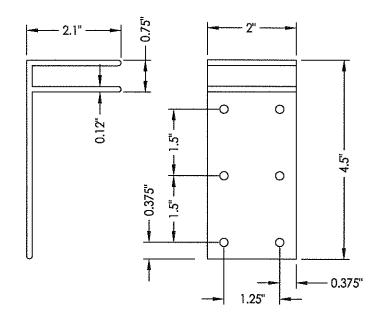




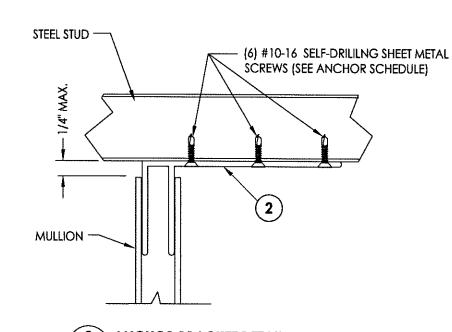


SHEET 2 OF 5





WOOD/STEEL STUD ANCHOR BRACKET 6063-T6 ALUM.



ANCHOR BRACKET DETAIL
Anchor to Steel Stud

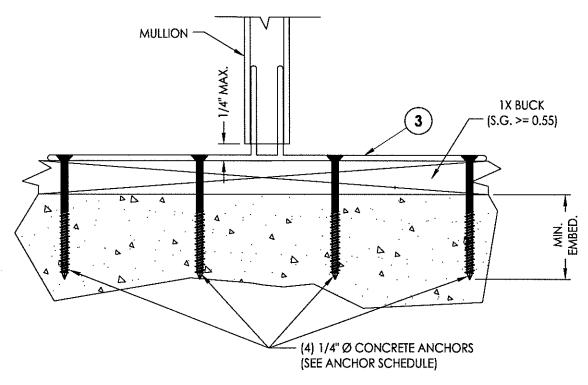
- 1. Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchor specifications.
- 2. Mullion bracket anchoring details shown may be used at either end of mullion.

MUL	ION ANCHO	R BRACKET ANCHOR	SCHEDULE	
ANCHOR	SUBSTRATE	EMBEDMENT E (MIN.)	DGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
#10 PFH WOOD SCREW	WOOD	1-3/8"	1"	1-1/4"
#10-16 SELF-DRILLING SHEET METAL SCREW	STEEL	A MIN. OF 3 THREADS SHALL PROTRUDE COMPLETELY THROUGH THE STEEL SUBSTRATE	۱"	1-1/4"

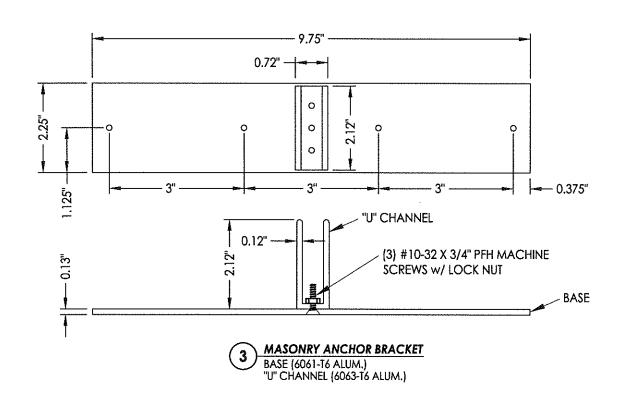
WOOD FRAMING (S.G. >= 0.42)
STEEL CONFORMING TO ASTM A653, 16 GA., 0.060" MIN. THICKNESS (Fy = 33,000 PSI, Fu = 45,000 PSI)
SHEET METAL SCREWS (SAE GRADE 5 MIN.): HILTI KWIK-FLEX OF ELCO DRIL-FLEX

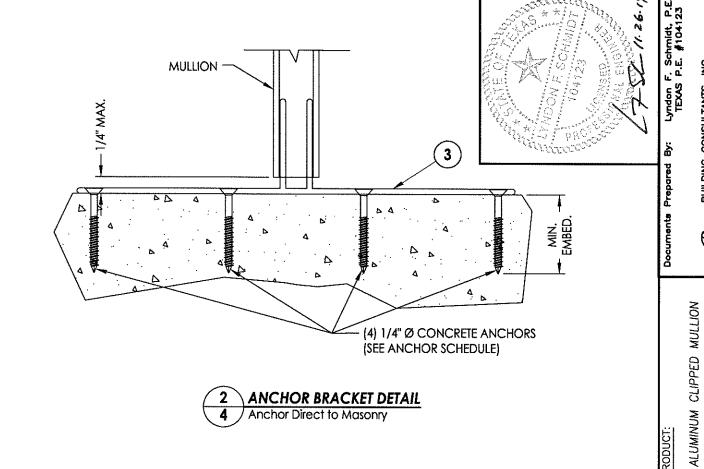
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ALUMINUM CLIPPED MULLION



ANCHOR BRACKET DETAIL Anchor to Masonry thru 1x Buck





ANCHOR BRACKET DETAIL Anchor Direct to Masonry

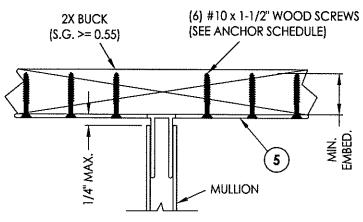
- Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchor specifications.
- Mullion bracket anchoring details shown may be used at either end of mullion.

MULLION ANCHOR BRACKET ANCHOR SCHEDULE										
ANCHOR	SUBSTRATE	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)						
1/4" Ø PFH HILTI KWIK-CON II+	HOLLOW BLOCK	1-1/4"	2-1/2"	3"						
HILITAWIK-CON R+	CONCRETE	1-1/4"	2-1/2"	3"						

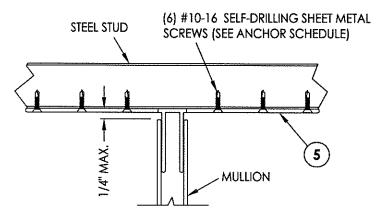
CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.) OR HOLLOW BLOCK CONFORMING TO ASTM C90

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PART OR ASSEMBLY:
ANCHOR BRACKET DETAILS
CROSS SECTIONS



ANCHOR BRACKET DETAIL Anchor to 2x Buck



ANCHOR BRACKET DETAIL Anchor to Steel Stud

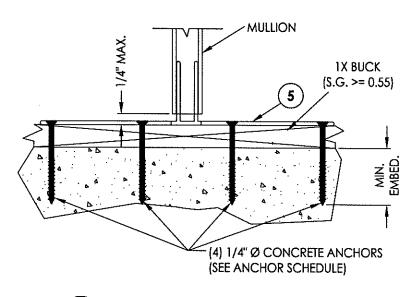
Notes:

- Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchor
- Mullion bracket anchoring details shown may be used at either end of mullion.

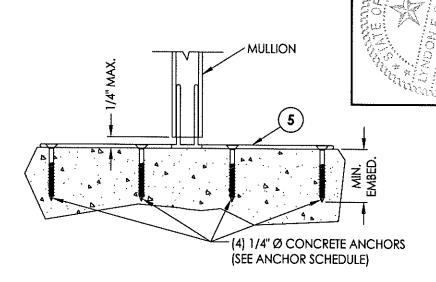
	MULLION ANCHO	R BRACKET ANCHOR :	SCHEDULE	
ANCHOR	SUBSTRATE	EMBEDMENT ((MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
#10 PFH WOOD SCREW	WOOD	1-3/8"] "	1-1/4"
#10-16 SELF-DRILLING SHEET METAL SCREW	STEEL	A MIN. OF 3 THREADS SHALL PROTRUDE COMPLETELY THROUGH THE STEEL SUBSTRATE] 21	1-1 /4 "
1/4" Ø PFH	HOLLOW BLOCK	1-1/4"	2-1/2"	3"
HILTI KWIK-CON II+	CONCRETE	1-1/4"	2-1/2"	3"

WOOD FRAMING (S.G. >= 0.55)

STEEL CONFORMING TO ASTM A653, 16 GA., 0.060" MIN. THICKNESS (Fy = 33,000 PSI, Fu = 45,000 PSI) SHEET METAL SCREWS (SAE GRADE 5 MIN.): HILTI KWIK-FLEX OF ELCO DRIL-FLEX CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.) OR HOLLOW BLOCK CONFORMING TO ASTM C90



ANCHOR BRACKET DETAIL Anchor to Masonry thru 1x Buck



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ANCHOR BRACKET DETAILS CROSS SECTIONS

MULLION

CLIPPED

ALUMINUM

DATE: 11/25/14

N.T.S.

TX-4386 SHEET <u>5</u> OF <u>5</u>

JK

LFS

SCALE:

DWG. BY:

CHK. BY:

DRAWING NO.:

ANCHOR BRACKET DETAIL Anchor Direct to Masonry

